



WATER MANAGEMENT DIVISION MONTHLY REPORT

Information Exchange Bulletin

Vol. No. 99 – 4

Date: 7 May 1999

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RESERVOIR OPERATION AND SYSTEM STATUS FOR APRIL 1999

HIGHLIGHTS – The stage at Cairo varied within a range of 22.2-38.8 feet. The Ohio River crested at Cairo on the 30th at 38.79 feet. Normal stage for April is 37 feet.

WEATHER – The weather during April was warm and generally dry. Temperatures averaged 1-4 degrees above normal for the month. Precipitation was well below normal for all areas south of the Ohio River. Tennessee was particularly dry. Illinois, northern Indiana, northern Ohio, and Pennsylvania received above normal rainfall with some small areas of northern Indiana and southern Illinois recording more than double the normal rainfall.

The following table summarizes temperature and precipitation for April:

TEMPERATURE AND PRECIPITATION – APRIL 1999

	TEMPERATURE		PRECIPITATION	
STATION	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	51.8	+2.2	4.19	+1.04
Charleston, WV	58.3	+3.5	2.20	-1.11
Columbus, OH	55.0	+4.0	4.65	+1.44
Cincinnati, OH	55.0	+1.8	2.88	-0.87
Louisville, KY	59.3	+3.0	3.07	-1.16
Indianapolis, IN	54.9	+2.5	4.09	+0.39
Evansville, IN	57.7	+1.5	6.15	+2.13
Nashville, TN	62.9	+3.3	2.29	-2.08

STREAMFLOW -- Ohio River monthly average flows for April ranged from a low of 48 percent of normal at Paducah, KY to a high of 105 percent of normal at Pittsburgh, PA. Daily flows ranged from a low of 37 percent of normal at Evansville, IN to a high of 164 percent of normal at Pittsburgh, PA.

The following table presents the flow data summary for April at the Ohio River Index Stations:

FLOW DATA – APRIL 1999

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
	CUBIC FEET/SECOND		HIGH	LOW
Pittsburgh, PA	60,741	105	164	65
Huntington, WV	112,200	82	122	50
Cincinnati, OH	118,000	66	93	39
Louisville, KY	132,500	63	83	38
Evansville, IN	140,030	57	76	37
Paducah, KY	224,670	48	60	37

RESERVOIRS -- April started with 3.1% utilization of the total system flood control storage, reached a high of 3.2% on the 2nd, and ended the month at 0.9%. System-wide augmentation storage decreased from 93.8% at the beginning of the month to 92.8% by the end of the month. Significant flood storage utilization in excess of 25% occurred at three reservoir projects during April:

East Branch	26.9%	Conemaugh	29.8%	Mosquito Creek	30.1%
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The following table depicts storage change by tributary reservoir subsystem for April:

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	+170,200
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	+144,500
Twelvepole-Big Sandy-Little Sandy-Scioto	+81,800
Little Miami-Licking-Mill Creek-Great Miami	+56,000
Kentucky-Salt-Green-Wabash	+320,500
Cumberland	+967,800
TOTAL	+1,740,800

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